Summit Manufacturing Utility (SMU) Guide

Windows XP

Version 3.03

global solutions: local support™

Americas: +1-866-434-4300
Europe: +46 [Insert Contact Ph No]
Asia: +86 [Insert Contact Ph No]

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SUMMIT PRODUCTS AND SUMMIT SOFTWARE

Thank you for choosing one of the following radio modules or cards from Summit Data Communications, Inc.:

802.11g radios (support 802.11b and 802.11g)		
Compact flash (CF)	Module with antenna connectors	SDC-CF10G
	Card with integrated antennas	SDC-CF20G or SDC-CF22G
PCMCIA	Module with antenna connectors	SDC-PC10G
	Card with integrated antennas	SDC-PC20G or SDC-PC22G
Miniature compact flash (MCF)	Module with antenna connectors	SDC-MCF10G
Miniature SDIO module	SDIO module with antenna connectors	SDC-MSD10G
802.11a/g radios (support 802.11a, 802.11b, and 802.11g)		
Compact flash	Module with antenna connectors	SDC-CF10AG
	Card with integrated antennas	SDC-CF22AG
PCMCIA	Module with antenna connectors	SDC-PC10AG
	Card with integrated antennas	SDC-PC22G
Miniature compact flash	Module with antenna connectors	SDC-MCF10AG
Miniature SDIO module	SDIO Module with antenna connectors	SDC-MSD10AG and SDC-MSD30AG
	SDIO module	SDC-SSD30AG
802.11n radios (support 802.11a, 802.11b, 802.11g, and 802.11n)		
PCIe	Express mini card with antenna connectors	SDC-PE15N
ExpressCard (EC)	ExpressCard with antenna connectors	SDC-EC15N
	ExpressCard with integrated antennas	SDC-EC25N

Each Summit G radio enables a computing device to communicate to a computing network using the IEEE 802.11g and IEEE 802.11b protocols. The hardware components and software for all Summit G radios are the same. A 20G version is a 10G version with integrated antennas. A PCMCIA version is a CF version in a specially designed CF-to-PCMCIA carrier. The miniature CF version is essentially the CF version with a different layout and a different (Molex) connector.

Each Summit AG radio enables a computing device to communicate to a computing network using the IEEE 802.11a, 802.11g, and IEEE 802.11b protocols. The hardware components for all Summit AG radios are the same.

Summit Software

Software Components

The software that Summit provides for its radios consists of the following components:

- A device driver for the operating system running on the computing device that houses the radio
- An integrated IEEE 802.1X supplicant
- SCU as well as other utilities that use a software developer's kit (SDK) to interact with the driver
- A service that displays in the Windows System Tray an icon that provides a visual status for the Summit radio and enables the user to launch SCU by tapping the icon

SCU is designed for end users and administrators of mobile devices that use a Summit radio module. SCU provides a GUI for access to all of its functions. Access to these functions also is available through an API that is provided to every Summit customer. A Summit customer can use the API to manage the radio from another utility, such as one that the customer provides with its mobile devices.

Using SCU, an administrator can configure radio and security settings in a configuration profile, or config. For a list of config settings, see the Summit User's Guide. An administrator also can use SCU to define a set of global settings, which apply to all configs and to SCU. For a list of global settings that can be configured using SCU, see the Summit User's Guide.

The Summit Manufacturing Utility (SMU) allows for the configuration of certain radio settings that cannot be configured through SCU. Summit offers SMU only to its direct customers:

- Device manufacturers that embed Summit radios in their devices or offer Summit radios as device options
- Value-added distributors that must configure Summit radios for resellers and end-customers

Software Versions

V3.03.08 of Summit software is designed for use with a Summit radio that has a CF or PCMCIA interface. If you are using a Summit radio with an SDIO interface, then you cannot use V2.02.xx of Summit software. For the MSD10G module or the MSD10AG module, you must use a version of software with SD in the version number, such as V3.03.08SD.

V3.03.08 of Summit supports operates on the following operating systems:

- Windows Embedded CE 4.2, 5.0, 6.0, or 6.0 (R2 and R3)
- Windows Mobile 2003, 5.0, 6, 6.1, and 6.5
- Windows XP or Embedded XP SP2 (or higher)
- Windows 7 (Summit SDC-PE15N, SDC-EC15N, and SDC-EC25N radios only)

This guide is for SMU V3.03.09 running on Windows XP.

Using SMU

To use SMU in a mobile computing device that runs Windows XP, you first must perform the following steps:

- Install standard Summit software, which does not include SMU
- Install the Summit radio on the device
- Load SMU on the device

It is recommended that you complete the steps in the order shown above. If you insert the radio in your device before you install the software, then the operating system will flag the radio as unknown and display the "Found New Hardware Wizard" screen, and you must select "**Cancel**" to cancel the Hardware Wizard.

Once you have finished using SMU, you must remove SMU from the device. SMU is for the exclusive use of those Summit customers to which Summit makes SMU available. Those customers are not permitted to redistribute SMU to anyone.

Installing Summit Software (not SMU) and Summit Radios

Note: Refer to the Summit Installation Guide for detailed information on installing Summit software and Summit radios. This installation guide is available from the Summit website Documentation page: http://www.summitdata.com/documentation.htm

Regulatory Compliance

To comply with FCC RF exposure compliance requirements, each antenna used with a Summit radio module must be installed with a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

The user's manual for the device that embeds or otherwise uses a Summit radio should *not* provide information on how to install a radio module within a device or remove an installed radio module from a device.

Each device is labeled with all applicable regulatory information in a manner that's compliant with all regulatory standards. Regulatory operational requirements are included with this document and are to be incorporated into the operating manual of any device into which the Summit radio is installed. For complete regulatory information, refer to the "*Hardware Integration Guide*" for the applicable radio.

Loading SMU

Identify the appropriate *smu.exe* file for the operating system and processor of your device. Download the file, and copy it to your mobile device using a supported file transfer mechanism.

Removing SMU from the Device

SMU is designed exclusively for Summit direct customers and not for device end-users or administrators. Once you have used SMU to configure radio settings on a device that will be used by someone in another organization, you must remove SMU from the device. To do so, simply erase the file *smu.exe*.

If you are using a single device to program multiple radios, then you can leave SMU loaded on that device and follow this sequence for each radio: install the radio, run SMU, and remove the radio.

THE SUMMIT MANUFACTURING UTILITY

Using SMU

To run SMU, use File Explorer or Windows Explorer to locate the *smu.exe* file, and tap the file to execute it. SMU will display a graphical user interface (GUI) like the one shown at the right. The values displayed on the SMU window may not reflect what is programmed on the radio or on the device.

Use the selection boxes, radio buttons, and input fields to select the desired card and unit settings, and then tap the Commit Changes button. Once you tap Commit, SMU uses the Summit application programming interface (in the Summit software developer's kit, or SDK) and programmatically does the following:

- Gathers the specified settings
- Calls SetGlobalSettings
- Calls updateSROM

It takes about 30 seconds from when you tap the button to when the settings are stored.

SMU-Configurable Settings

There are two types of global settings that can be configured only through SMU:

- Unit Settings: Stored in the registry of the unit on which SMU is run.
- Card Settings: Stored in the SROM on the radio module, or card. If you move the card from one device to another, the card will retain these settings, provided that the device is running a version of the driver as current as the version with which SMU was used.

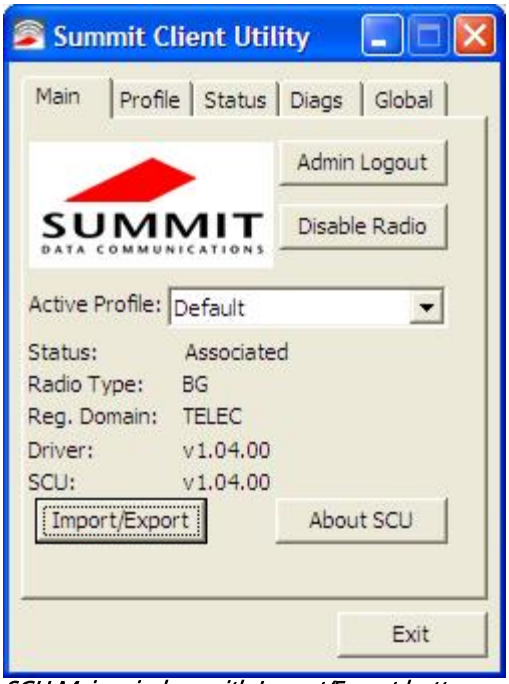
Unit Setting: Administrative Override

When the administrative override setting is On, then the Admin Login button is removed from the SCU Main window, and SCU considers the user in Admin mode.

Unit Setting: Import/Export

When the import/export setting is On, then a user logged into SCU as an administrator will see an Import/Export button on the SCU Main window, as shown on the next page. By tapping that button, the user will view a dialog box on which he or she can:

- Export global settings, all standard SCU profiles, and the special ThirdPartyConfig profile from the SCU area of a device's registry to a file that can be transferred to another device
- Import global settings, all standard SCU profiles, and the special ThirdPartyConfig profile from a file (created using the Export facility) to the SCU area of a device's registry so that SCU can use it
  - If "Add to existing" is selected, then the imported information will be merged with information that was in the registry previously
  - If "Replace" is selected, then the imported information will overwrite the information that was in the registry previously



SCU Main window with Import/Export button

Import/Export dialog box

Regulatory Domain

A Summit radio's regulatory domain determines the radio's maximum transmit power and the frequency channels available to the radio. Summit radios are certified for operation in three regulatory domains:

- FCC, which is governed by the Federal Communications Commission, the regulatory agency and standards body for the Americas and parts of Asia
- ETSI, which is governed by the European Telecommunications Standards Institute, the standards body applicable to most of Europe, Africa, the Middle East and parts of Asia
- TELEC, which is governed by the Telecom Engineering Center, the standards body for Japan
- KCC (Korea)

A Summit radio can be programmed for any one of these four domains. Alternatively, a Summit radio can be programmed for a Worldwide domain, which enables the radio to be used in any domain. "Worldwide" value is the default value for the setting.

An 802.11g radio, which supports both 802.11b and 802.11g, operates in the 2.4 GHz frequency spectrum, where up to 14 channels, numbered 1 to 14, are defined. Adjacent channels overlap. In fact, there must be five channels of separation to avoid overlap and co-channel interference. As an example, channels 1, 6, and 11 are non-overlapping.

An 802.11a/g radio operates in both the 2.4 GHz spectrum for 802.11b and 802.11g and the 5 GHz spectrum for 802.11a. The 5 GHz frequency spectrum is grouped into sets of channels, or bands:

- UNII-1: 36, 40, 44, 48
- UNII-2: 52, 56, 60, 64
- Intermediate: 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140
- UNII-3: 149, 153, 157, 161

None of the channels in the 5 GHz bands overlap. Dynamic Frequency Selection, or DFS, is required for the UNII-2 and Intermediate bands. With V2.01 of Summit software, a Summit AG radio programmed for the FCC regulatory domain does not support DFS or the bands that require DFS.

The table below shows the channels and the nominal maximum transmit power values that are supported in each regulatory domain with V2.01:

Domain	2.4 GHz		5 GHz (AG radio only)	
	Channels	Tx (.11b)	Channels	Tx
FCC	1-11	18 dBm	UNII-1, UNII-2, Intermediate, and UNII-3	14 dBm
ETSI	1-13	18 dBm	UNII-1, UNII-2, and Intermediate	14 dBm
TELEC	1-14	17 dBm	UNII-1 and UNII-2, plus additional channels: 34, 38, 42, 46	14 dBm
WorldWide[1]	1-11	17 dBm	UNI-I and UNI-III (UNI-III only if DFS channels are enabled)	14 dBm
KCC	1-13	18 dBm	UNII-1, UNII-2, Intermediate, and UNII-3	14 dBm

V2.01 of Summit software supports a performance-optimized version of IEEE 802.11d, the ratified standard for the operation of a wireless LAN client radio in multiple regulatory domains. This 802.11d support ensures that a Summit radio that is programmed for the WorldWide regulatory domain will adjust its 2.4 GHz and 5 GHz channel sets and maximum transmit power settings to match those for the country specified in the Country information element transmitted in an access point's (AP's) association response.

To take advantage of 802.11d support in Summit software and ensure optimal performance, an organization that uses devices with Summit radios must make sure that:

- Every AP on the wireless LAN supports 802.11d, specifies the correct Country information element, and broadcasts its SSIDs
- Every Summit radio is programmed for a regulatory domain of WorldWide (by the device manufacturer or other organization that uses the Summit Manufacturing Utility to program Summit radios)

A Summit radio that is programmed for a regulatory domain of FCC, ETSI, or TELEC will ignore the Country information elements from APs.

A Summit radio uses 802.11d only when it tries to associate on an SSID for the first time. During the initial association process, if the AP provides a Country information element, then the radio configures its channel set and maximum transmit power for that country. The radio assumes that all APs with the same SSID have the same 802.11d country code; as a result, the radio effectively ignores the country code when roaming

[1] When a Summit radio programmed for the WorldWide domain associates to an AP that is configured for 802.11d, the radio will adapt its channels and maximum transmit power to those for the country specified by the AP. See the explanation below the table.

from one AP to another. The radio will continue to use the channel set and maximum transmit power for a country until the radio disconnects from the WLAN (with that SSID).

V2.01 of Summit software also supports a "world mode" that is independent of 802.11d. When a Summit radio programmed for the WorldWide regulatory domain is within range of APs that are not configured for 802.11d, the radio identifies the channels that the APs support and automatically adapts its channel set to the channels supported by the APs.

Bluetooth Coexistence

When Bluetooth coexistence is on, pins 39 and 45 of the radio are used for two-wire Bluetooth coexistence handshaking. When Bluetooth coexistence is off, the handshaking lines are not used. The default value is "Off".

BG Max Antenna Adjust and A Max Antenna Adjust

The last two card settings provides for an adjustment to the radio's transmit power to accommodate a 2.4 GHz (802.11b/g) antenna, a 5 GHz (802.11a) antenna, or a dual-band antenna with a gain greater than 0 dBm. The values for each of these settings, "BG Max antenna adjust" and "A Max antenna adjust", is the degree of antenna attenuation expressed as a percentage of dBm, not milliwatts (mW), with the percentage based on a TELEC 50 mW test. On the next page is a table of popular dBm values and their corresponding mW values.

Here is an example: In ETSI, to ensure that the maximum 802.11b transmit power is 50 mW, use 94%:

94% x 18 dBm = 16.92 dBm = 50 mW

The default value is "100%".

dBm	mW	dBm	mW	dBm	mW
20	100	15	31.6	10	10
19	79.4	14	25.1	8	6.3
18	63.1	13	20	6	4
17	50.1	12	15.8	3	2
16	39.8	11	12.6	0	1

Beginning with V1.03.23 of Summit software, the transmit power (Tx Power) value on the SCU Status window accounts for the transmit power adjustment set in SMU. As a result, the displayed value is the true transmit power of the Summit radio. In previous releases, the Status window displayed the transmit power without the adjustment, because SCU assumed that the antenna provided a gain that compensated for the adjustment. With previous releases, therefore, the displayed value was an estimate of EIRP and not a true radio transmit power value.

APPENDIX: REGULATORY INFORMATION

Note: All declarations and instructions for the SDC-CF10G apply to other Summit 802.11g radio modules and cards.

FCC

Summit declares that all applicable products are limited in CH1~CH11 for 2.4 GHz by specified firmware controlled in U.S.A.

This device is intended for host device manufacturers and integrators only under the following conditions:

1. The antenna must be installed such that 20 cm is maintained between the antenna and users, and
2. The transmitter module may not be co-located with any other transmitter or antenna.

As long as the two conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing its end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

IMPORTANT NOTE: In the event that the two conditions above cannot be met (for example certain device configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID cannot be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

- End Product Labeling

This transmitter module is authorized only for use in device where the antenna may be installed such that 20 cm may be maintained between the antenna and users, for example, mobile data terminals (MDTs) and vehicle-mounted devices (VMDs). The final end product must be labeled in a visible area with the applicable notice from the following list:

"Contains TX FCC ID: TWG-SDCCF10G"

"Contains TX FCC ID: TWG-SDCMCF10G"

"Contains TX FCC ID: TWG-SDCCF10AG"

"Contains TX FCC ID: TWG-SDCMCF10AG"

- Manual Information That Must be Included

The OEM integrator must not provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module.

The user's manual for OEM integrators must include the following information in a prominent location:

"**IMPORTANT NOTE:** To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

1. Reorient or relocate the receiving antenna
2. Increase the separation between the equipment and receiver
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
4. Consult the dealer or an experienced radio/TV technician for help

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Industry Canada

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

This device has been designed to operate with the antennas listed below, and having a maximum gain of 5.1 dB. Antennas not included in this list or having a gain greater than 5.1 dB are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

Manufacturer: Laird Centurion
Model Name: NanoBlade
Antenna Type: PCB Omnidirectional
Gain at 2.40 GHz: 3.8 dBi
Gain at 5.25 GHz: 5.1 dBi
Gain at 5.80 GHz: 4.5 dBi

Manufacturer: Larson
Part Number: R380.500.314
Antenna Type: Dipole
Gain at 2.40 GHz: 1.6 dBi
Gain at 5 GHz: 5 dBi

Europe – EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

- EN60950-1:2001 A11:2004
  Safety of Information Technology Equipment

- EN50392 : (2004-01)
  Generic standard to demonstrate the compliance of electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (0 Hz - 300 GHz)
- EN 300 328 V1.7.1: (2006-10)
  Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
- EN 301 489-1 V1.6.1: (2005-09)
  Electromagnetic compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
- EN 301 489-17 V1.2.1 (2002-08)

Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries, except in France and Italy where restrictive use applies.

In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.

This device may not be used for setting up outdoor radio links in France and in some areas the RF output power may be limited to 10 mW EIRP in the frequency range of 2454 – 2483.5 MHz. For detailed information the end-user should contact the national spectrum authority in France.

CE 0560 !

cs Česky [Czech]	*[Jméno výrobce]* tímto prohlašuje, že tento *[typ zařízení]* je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
da Dansk [Danish]	Undertegnede *[fabrikantens navn]* erklærer herved, at følgende udstyr *[udstyrets typebetegnelse]* overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
de Deutsch [German]	Hiermit erklärt *[Name des Herstellers]*, dass sich das Gerät *[Gerätetyp]* in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
et Eesti [Estonian]	Käesolevaga kinnitab *[tootja nimi = name of manufacturer]* seadme *[seadme tüüp = type of equipment]* vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
en English	Hereby, *[name of manufacturer]*, declares that this *[type of equipment]* is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
es Español [Spanish]	Por medio de la presente *[nombre del fabricante]* declara que el *[clase de equipo]* cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
el Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ *[name of manufacturer]* ΔΗΛΩΝΕΙ ΟΤΙ *[type of equipment]* ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
fr Français [French]	Par la présente *[nom du fabricant]* déclare que l'appareil *[type d'appareil]* est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
it Italiano [Italian]	Con la presente *[nome del costruttore]* dichiara che questo *[tipo di apparecchio]* è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
lv Latviski [Latvian]	Ar šo *[name of manufacturer / izgatavotāja nosaukums]* deklarē, ka *[type of equipment / iekārtas tips]* atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
lt Lietuvių [Lithuanian]	Šiuo *[manufacturer name]* deklaruoja, kad šis *[equipment type]* atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
nl Nederlands [Dutch]	Hierbij verklaart *[naam van de fabrikant]* dat het toestel *[type van toestel]* in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
mt Malti	Hawnhekk, *[isem tal-manifattur]*, jiddikjara li dan *[il-mudel tal-prodott]* jikkonforma mal-ħtiġijiet

[Maltese]	essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
hu Magyar [Hungarian]	Alulírott, *[gyártó neve]* nyilatkozom, hogy a *[... típus]* megfelel a vonatkozó alapvetõ követelményeknek és az 1999/5/EC irányelv egyéb elõírásainak.
pl Polski [Polish]	Niniejszym *[nazwa producenta]* oświadcza, że *[nazwa wyrobu]* jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
pt Português [Portuguese]	*[Nome do fabricante]* declara que este *[tipo de equipamento]* está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
sl Slovensko [Slovenian]	*[Ime proizvajalca]* izjavlja, da je ta *[tip opreme]* v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
sk Slovensky [Slovak]	*[Meno výrobcu]* týmto vyhlasuje, že *[typ zariadenia]* spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
fi Suomi [Finnish]	*[Valmistaja = manufacturer]* vakuuttaa täten että *[type of equipment = laitteen tyyppimerkintä]* tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
sv Svenska [Swedish]	Härmed intygar *[företag]* att denna *[utrustningstyp]* står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.